



STIC Search Report

EIC 3700

STIC Database Tracking Number: 181092

TO: Jiping Lu
Location: RND 8b79
Art Unit: 3993
Thursday, March 02, 2006

Case Serial Number: 08/954291

From: Terry Solomon
Location: EIC 3700
RND 8b31
Phone: 272-4240

terrance.solomon@uspto.gov

Search Notes

No current or past litigation found involving US pat. 5458483.

Sources:

Lexis/Nexis
Questel-Orbit
Courtlink

Patent Search - Number: 5,458,483

No cases found.

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163424 (08) 5458483 October 17, 1995

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5458483

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October 17, 1995

Oxygen-fuel burner with integral staged oxygen supply

REISSUE: Reissue Application filed Oct. 20, 1997 (O.G. Dec. 29,, (O.G. December 29, 1998)

APPL-NO: 163424 (08)

FILED-DATE: December 8, 1993

GRANTED-DATE: October 17, 1995

ASSIGNEE-AT-ISSUE: Maxon Corporation, Muncie, Indiana, United States (US), 02

ASSIGNEE-AFTER-ISSUE: December 8, 1993 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., MAXON CORPORATION 201 EAST 18TH STREET MUNCIE INDIANA 47302, Reel and Frame Number: 06803/0653

October 1, 2004 - SECURITY AND PLEDGE AGREEMENT, ALLSTATE LIFE INSURANCE COMPANY C/O JOHN HANCOCK LIFE INSURANCE COMPANY 200 CLARENDON STREET BOSTON MASSACHUSETTS 02217; C.M. LIFE INSURANCE COMPANY C/O MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY, C/O BABSON CAPITAL MANAGEMENT, LLC 1500 MAIN STREET SPRINGFIELD MASSACHUSETTS 01115; HANCOCK MEZZANINE PARTNERS III L.P. C/O JOHN HANCOCK LIFE INSURANCE COMPANY 200 CLARENDON STREET BOSTON MASSACHUSETTS 02117; JOHN HANCOCK LIFE INSURANCE COMPANY 200 CLARENDON STREET BOSTON MASSACHUSETTS 02117; MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY C/O BABSON CAPITAL MANAGEMENT, LLC 1500 MAIN STREET SPRINGFIELD MASSACHUSETTS 01115; MASSMUTUAL CORPORATE INVESTOR C/O BABSON CAPITAL MANAGEMENT, LLC 1500 MAIN STREET SPRINGFIELD MASSACHUSETTS 01115; MASSMUTUAL PARTICIPATION INVESTORS C/O BABSON CAPITAL MANAGEMENT, LLC 1500 MAIN STREET SPRINGFIELD MASSACHUSETTS 01115; SIGNATURE 5 L.P. C/O JOHN HANCOCK LIFE INSURANCE COMPANY 200 CLARENDON STREET BOSTON MASSACHUSETTS 02117; SIGNATURE 7 L.P. C/O JOHN HANCOCK LIFE INSURANCE COMPANY 200 CLARENDON STREET BOSTON MASSACHUSETTS 02117, Reel and Frame Number: 15223/0591

LEGAL-REP: Barnes & Thornburg

(C) QUESTEL 1994
QUESTEL.ORBIT (TM) 1998

Selected file: PLUSPAT
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**** SS 1: Results 1**
PRT SS 1 MAX 1 LEGALALL

1 / 1 PLUSPAT - @QUESTEL-ORBIT - image

Patent Number :

US5458483 A 19951017 [US5458483]

Title :

(A) Oxygen-fuel burner with integral staged oxygen supply

Patent Assignee :

(A) MAXON CORP (US)

Patent Assignee :

Maxon Corporation, Muncie IN [US]

Inventor(s) :

(A) TAYLOR CURTIS L (US)

Application Nbr :

US16342493 19931208 [1993US-0163424]

Filing Details :

C.I.P. of US92008 19930715 [1993US-0092008]

Continuation-in-part of: US5431559 - 19950711

Priority Details :

US9200893 19930715 [1993US-0092008]

US16342493 19931208 [1993US-0163424]

Intl Patent Class :

(A) F23M-009/00

EPO ECLA Class :

F23C-006/04B

F23C-007/02

F23D-011/10A1

F23D-011/10B

F23D-014/32

EPO ICO Class :

R23C-201/20

US Patent Class :

ORIGINAL (O) : 431350000; CROSS-REFERENCE (X) : 431009000 431115000
431351000

Document Type :

Corresponding document

Citations :

US4690635; US4986748; US5092760; US5269679

North American Combustion Handbook, A Basic Reference on the Art and Science of Industrial Heating with Gaseous and Liquid Fuels, vol. 1: Combustion, Fuels, Stoichiometry, Heat Transfer, Fluid Flow, Third Edition, "Oxygen Enrichment", pp. 76-79.

Combustion Technology Manual, Fourth Edition, 1988, "Oxygen-Enriched and Oxy-Fuel Combustion", pp. 316-327.

Publication Stage :

(A) United States patent

Abstract :

A burner assembly is provided for combining oxygen and fuel to produce a flame. The burner assembly includes a burner block formed to include a flame chamber having inlet and outlet openings, a bypass structure for conducting oxygen outside of the flame chamber to the outlet opening of the flame chamber and structure for discharging fuel into the flame chamber formed in the burner block.

1 / 1 LGST - ©EPO

Patent Number :

US5458483 A 19951017 [US5458483]

Application Number :

US16342493 19931208 [1993US-0163424]

Action Taken :

19931208 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: MAXON CORPORATION 201 EAST 18TH STREET MUNCIE, IND; EFFECTIVE

DATE: 19931206

19931208 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: TAYLOR, CURTIS L.; EFFECTIVE DATE: 19931206

19981229 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 19971020

20041001 US/AS-A

ASSIGNMENT

OWNER: MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY C/O BA; EFFECTIVE

DATE: 20040930

SECURITY AND PLEDGE AGREEMENT;ASSIGNOR:MAXON CORPORATION

/AR;REEL/FRAME:015223/0591

Update Code :

2005-41

1 / 1 CRXX - ©CLAIMS/RRX

Patent Number :

5,458,483 A 19951017 [US5458483]

Patent Assignee :

Maxon Corp

Actions :

19971020 REISSUE REQUESTED

ISSUE DATE OF O.G.: 19981229

REISSUE REQUEST NUMBER: 08/954291

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3743

Reissue Patent Number:

20041001 REASSIGNED

SECURITY AND PLEDGE AGREEMENT

Assignor: MAXON CORPORATION, DATE SIGNED: 09/30/2004

Assignee: MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY C/O BABSON CAPITAL MANAGEMENT, LLC, 1500 MAIN STREET, SPRINGFIELD, MASSACHUSETTS, 01115

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Reel 015223/Frame 0591

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Session finished: 02 MAR 2006 Time 19:35:41
QUESTEL.ORBIT thanks you. Hope to hear from you again soon.